

collector being shorter than the first length of the elongated strip of alkali metal;

(b) a cathode assembly, comprising:

(1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and

(2) a cathode material bonded to the current collector,

(c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

(d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides[, the assemblies having interposed

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therebetween at least one separator, the second length of the anode current collector being shorter than the first length of the elongated strip of alkali metal].

10. (Twice Amended) An electrode assembly for an electrochemical cell, comprising:

(a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height, the first height of the anode current collector being shorter than the second height of the elongated strip of alkali metal;

C<sup>2</sup>  
(b) a cathode assembly, comprising:

SUB  
D<sup>2</sup>  
(1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and

(2) a cathode material bonded to the current collector,

(c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

C2 (d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides[, the assemblies having interposed therebetween at least one separator, the first height of the anode current collector being shorter than the second height of the elongated strip of alkali metal].

28. (Twice Amended) An electrode assembly for an electrochemical cell, comprising:

- C3 SUB D3
- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height;
  - (b) a cathode assembly, comprising:
    - (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and
    - (2) a cathode material bonded to the current collector,
  - (c) a first separator layer interposed between the anode and cathode

assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

- C3
- (d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly;

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides, [the assemblies having interposed therebetween at least one separator,] the second height of the anode current collector being shorter than the third height of the cathode current collector.

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37. (Twice Amended) An electrode assembly for an electrochemical cell, comprising:

- C4 SUB D4
- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height, the second length of the anode current

collector being shorter than the first length of the elongated strip of alkali metal, the second height of the anode current collector being shorter than the first height of the elongated strip of alkali metal;

(b) a cathode assembly, comprising:

(1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and

(2) a cathode material bonded to the current collector,

(c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

(d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

C4

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides[, the assemblies having interposed therebetween at least one separator, the second length of the anode current collector being shorter than the first length of the elongated strip of alkali metal, the second height of the anode current collector being shorter than the first height of the elongated strip of alkali metal].

46. (Twice Amended) An electrode assembly for an electrochemical cell, comprising:

C5 SUB D5

(a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height, the second length of the anode current collector being shorter than the first length of the elongated strip of alkali metal;

(b) a cathode assembly, comprising:

(1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and

(2) a cathode material bonded to the current collector,

(c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge

of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly;

- C5
- (d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides, [the assemblies having interposed therebetween at least one separator, the second length of the anode current collector being shorter than the first length of the elongated strip of alkali metal,] the second length of the anode current collector being shorter than the third length of the cathode current collector.

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55. (Twice Amended) An electrode assembly for an electrochemical cell, comprising:

- C6 SUB D6
- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height, the second length of the anode current

collector being shorter than the first length of the elongated strip of alkali metal;

(b) a cathode assembly, comprising:

(1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and

(2) a cathode material bonded to the current collector,

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(c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

(d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides, [the assemblies having interposed



C6  
therebetween at least one separator, the second length of the anode current collector being shorter than the first length of the elongated strip of alkali metal,] the second height of the anode current collector being shorter than the third height of the cathode current collector.

64. (Twice Amended) An electrode assembly for an electrochemical cell, comprising:

- C7
- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height, the second height of the anode current collector being shorter than the first height of the elongated strip of alkali metal;
  - (b) a cathode assembly, comprising:
    - (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and
    - (2) a cathode material bonded to the current collector,
  - (c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode

assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

- b2
- (d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides, [the assemblies having interposed therebetween at least one separator, the second height of the anode current collector being shorter than the first height of the elongated strip of alkali metal,] the second length of the anode current collector being shorter than the third length of the cathode current collector.

73. (Twice Amended) An electrode assembly for an electrochemical cell, comprising:

- C8
- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height, the second height of the anode current collector being shorter than the first height of the elongated strip of alkali metal;

- (b) a cathode assembly, comprising:
- (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and
  - (2) a cathode material bonded to the current collector,
- (c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and
- (d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides, [ the assemblies having interposed therebetween at least one separator, the second height of the anode current collector being shorter than the first height of the elongated strip of alkali metal,]

C8  
the second length of the anode current collector being shorter than the third length of the cathode current collector, the second height of the anode current collector being shorter than the third height of the cathode current collector.

82. (Twice Amended) An electrode assembly for an electrochemical cell, comprising:

- C9
- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height;
  - (b) a cathode assembly, comprising:
    - (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and
    - (2) a cathode material bonded to the current collector,
  - (c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and
  - (d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the

cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

C9 the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides, [the assemblies having interposed therebetween at least one separator,] the second length of the anode current collector being shorter than the third length of the cathode current collector, the second height of the anode current collector being shorter than the third height of the cathode current collector.

--91. An electrode assembly for an electrochemical cell, comprising:

- C10
- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height;
  - (b) a cathode assembly, comprising:
    - (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and
    - (2) a cathode material bonded to the current collector,

(c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

C10  
(d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides, the second length of the anode current collector being shorter than the third length of the cathode current collector.--

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#### REMARKS

In the office action dated August 2, 2000, the pending claims addressed were identified as 1-18 and 27-90. These claims were rejected on various grounds as follows:

1. Section 112